

NORD KEYBOARDS - WINTER 2009

THE NORD
PRODUCT RANGE
WINTER 2009

HANDMADE IN SWEDEN
BY DEVOTED MUSIC LOVERS
AT CLAVIA DMI AB

nord®

no no



CONTENTS

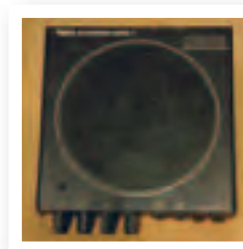
NORD ELECTRO 3	10
NORD STAGE EX	18
NORD WAVE	26
NORD C1	34
NORD LEAD 2X	42

A BRIEF COMPANY HISTORY

THE 80's

1983

Clavia was founded in 1983 by Hans Nordelius in Stockholm, Sweden. In a basement in a suburb of Stockholm he created the **Digital Percussion Plate 1** which was released later the same year. For the first time ever drummers could play sampled sounds with great feel and dynamics. The sounds were stored on removable EPROM cartridges in 8-bit format. Needless to say, the product was an instant success.



1984

In 1984 the brand name **ddrum** was introduced. At this point Clavia introduced a new pad construction featuring real drum heads and hoops. Most other pads on the market had a plastic or rubber surface, so these improvements were considered very innovative. The ddrum versions 1 to 4 all became very successful and many people still regard them as being the best triggering digital drum system around.

nord®

THE 90's

1995

The **Nord Lead** synthesizer was released in 1995. It was Clavia's first synthesizer and the first on the market to emulate analog synthesis. Thanks to its warm analog-like sound and straight forward user interface, the Nord Lead quickly became a huge success. With the Nord Lead Clavia introduced the term virtual analog, which since then has become widely accepted and synonymous with this form of synthesis.

1996

Magnus Kjellander joined Clavia in '96 and brought with him a new approach to the company in terms of software design. Magnus is the head of Clavia's software engineering department and the first unit that he was involved in completing was the **Nord Modular**. Introduced in '97, this was the first digital modular synthesizer. By dragging modules on the computer screen and connecting them with "virtual patch cords", you can design the synthesizer of your dreams. The Nord Modular is quite possibly the most flexible and innovative synthesizer that has ever been on the market.



nord®

THE NEW MILLENNIUM

2001

The goal when developing the **Nord Electro**, introduced in 2001, was to create the best emulations of classical electro-mechanical keyboards on the market. The Nord Electro doesn't offer any brass sounds or orchestral banks, just outstanding electro-mechanical sounds with a lot of passion. Unlike the instruments it emulates it is also extremely portable.

The **Nord Lead 3** was also released in 2001 and has been described as the ultimate performance synthesizer. The design of the panel with the LED Rotary Dials, the intuitive layout and the great sound made the Nord Lead 3 a classic stage and studio favorite instrument.

2005

In 2005 Clavia released the company's first stage piano, the **Nord Stage**. It is a flagship instrument featuring many of Clavia's areas of expertise. In addition to great acoustic and electric piano sounds you get organ emulations, loads of effects, master keyboard functionality and even a synthesizer! Regardless of your musical style, the Nord Stage has a lot to offer. This year Clavia stopped manufacturing digital drums and the ddrum brand name was sold.

2007

In 2007 the 2nd generation of Clavia's famous tonewheel model was released in the dual manual **Nord C1 Combo Organ**. Weighing in at merely 15 kg or 34 lbs. you have 3 vintage organs in one package. Not just the sound, but the feel and response too. And a roaring overdrive. And a bunch of out-board effects. And several amps and a rotating speaker.

2007 also took the Nord Lead synthesizer concept to the next level with the introduction of the groundbreaking **Nord Wave**; a virtual analog synthesizer capable of using any standard audio file as an oscillator source - making it a digital sample player in a virtual analog environment. The best of two worlds integrated in a single unit that is small in size, big in sound, and extremely intuitive and easy to use.

2008

The **Nord Stage EX** series was introduced in November 2008, with a 256 MB capacity for the piano memory and a new color scheme on the panel. Just a month later, the first feature rich **Nord Electro 3** left the assembly line.

nord®

THE FUTURE

Clavia is dedicated to continue to develop amazing and exquisite instruments according to our principles and philosophy, aimed at the performing musician.



Magnus Kjellander - Partner and Head of Software Development and **Hans Nordelius** - Founder, Innovator and CEO.

nord®



THE NORD FACTORY

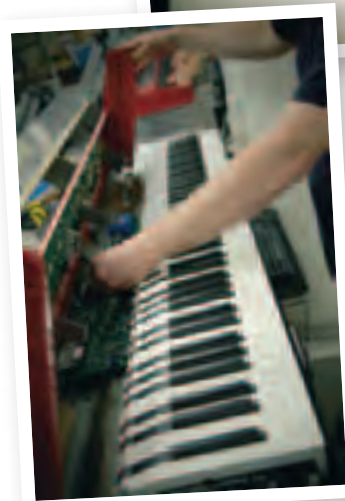
The Nord factory is located in the creative area of Stockholm called SoFo, in the district of Södermalm. It occupies three stories of an old industrial brick building close to the major music shop district and is brimming with creativity. Our R&D team can spawn a completely new instrument from an informal discussion; members of the production crew then add their talent and improvements that have made many successful products even better.

As there's only a short walk between production and development, we can communicate very fast and easy. This helps us correct production problems early on, even as early as during the prototype process.

The production crew collaborates with a few, carefully chosen contractors that deliver high quality components to the Nord factory. Whenever possible, we use Swedish suppliers. This gives us a better control over the end result of every individual manufactured instrument.



Nord keyboards are handmade in Sweden, by real people who loves music just as much as you do.



Clavia has 25 years of experience in soft- and hardware design as a manufacturer of musical instruments.



A streamlined assembly line makes us very efficient.



The Nord Crew at the product release of the Nord Electro 3 in 2008, with the first units to come off the assembly line.



The logistics of the production line is like a carefully crafted piece of art. Months ahead the crew knows exactly what products will be assembled and shipped on e.g. a particular Tuesday. Furthermore they also could tell you what was delivered 18 months ago!

Our Quality Control starts at the very first production station. As soon as two parts are assembled together, they are given an identity, which will follow this particular instrument for all of its life. Everything we need to know about a certain unit is entered automatically into a database. This ensures that we can track down any issue that presents itself during the lifespan of any given product.

Each and every unit is thoroughly tested before it is shipped out to our worldwide distribution network. The heat test that we run for 48 hours will invariably reveal if there's any internal component not performing as expected. Every key, knob and button is then operated several times in our custom made Quality Control testing rigs before a unit is considered ready to ship.



A front panel meets a circuit board, it's a beautiful match and the quality control has already begun.



During the final assembly, every member of the crew takes full responsibility.



Nord Stage 88 on their way to have the keyboards calibrated by our proprietary method.

The Nord keyboards are assembled by hand by a very dedicated and skilful crew. There are many smiles and happy faces at the factory in a relaxed but focused atmosphere. Most of our staff are active musicians. We definitely do have a stellar material for a great company band. But we would have to rent the drum kit.



nord electro 3
virtual electromechanical

nord electro 3

virtual electromechanical

**MISSION: TO MAKE A NEW ELECTRO
BETTER THAN ANYTHING WE'VE EVER
MADE BEFORE. INCLUDING ALL THE
GREAT STAGE PIANO SOUNDS.**

With the introduction of the Nord Electro 3, the legacy of the original Electro and the knowhow that have shaped some of the other Nord models have been combined. The Electro 3 features a new organ section, a new piano section, new effects and a new exciting feature that allows the Electro 3 to use any samples from the Nord Sample library. This is the performance keyboard that sets a new standard based on its impressive sound quality.

NEW FEATURES



*Seventy Three
Sixty One*

How do you improve on a classic performance keyboard like the original Electro? You could take it gently, or you just do what we did with the Electro 3; push it as far as you can, and then a bit further. The demands from a performing keyboard player haven't really changed all that much, good quality never goes out of style. We just want to offer you some of the best stuff we have, in an affordable and easy-to-use instrument. We hope that you will have as much fun owning and using the Electro 3, as we have had developing it.

The Nord Electro 3 is compatible with the new Nord Piano library. It takes full advantage of the Library's multitude of velocity layers, pedal-down samples and extremely high quality samples providing you with an unprecedented expressiveness. Any current or future piano sound that is available for the Stage family will also automatically be available to the Nord Electro 3.

nord electro 3
virtual electromechanical



EXQUISITE NEW PIANOS

Right from the start, the Electro 3 is loaded with a great selection of pianos. There are three acoustic grands (two Yamaha* C7s and one Steinway* D) and two electric grands. Electric piano aficionados will love the tine-based types; a Mk I, a Suitcase Mk I, a Mk II and a Mk V all with their unique and distinctive personalities. A great Wurlitzer* A200 is of course present, as is the mighty Clavinet* D6. The Clavinet type also includes the Harpsichords. There is a French harpsichord in the factory sound bank, and more to come in the Nord Piano Library download area. Each and every one of these pianos can be replaced if you wish. There are plenty more to choose from in the Library area, including some XL versions of our grand pianos, with even more details like added velocity layers and pedal-down samples. And all those sounds are available for free.



SAMPLES FROM THE NORD SAMPLE LIBRARY

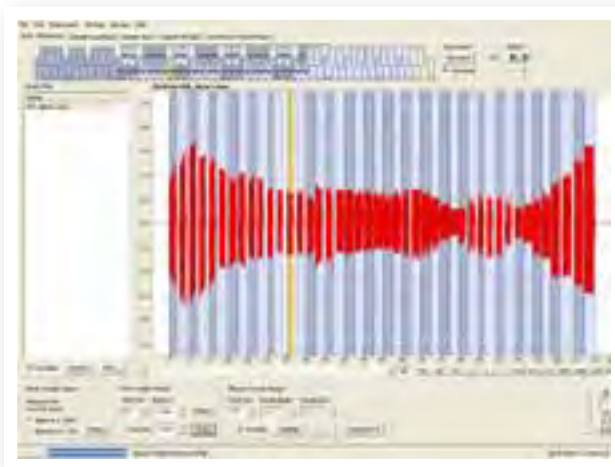
Not only loaded with great piano sounds, the Electro 3 also sports some great samples to add flavor to your sonic arsenal. You'll find some of the classic Mellotron sounds, a selection of strings, a celeste, a vibraphone and many others. And just as with the piano partition, all of the samples can be replaced if the factory selection does not suit your immediate needs.



You can add virtually any sound you want to the Nord Electro 3. Sounds that we offer for free are from the Mellotron Library or any other instrument from the expanding and extensive Nord Sample Library, which is the same format as the Nord Wave uses.

NORD SAMPLE EDITOR

By using the free Nord Sample Editor, you can add any sound you want to the Electro 3. The Sample Editor can use audio files in the .wav format and is equipped with some great tools to assist you in getting the results you want. Mapping several samples across the keyboard or creating perfect loops has never been easier. You can even start assembling your own samples today in the computer, without having the Nord Electro 3 present - just download the Editor, the Electro 3 manual and fire away. The Nord Sample Editor is compatible with Windows XP and Vista, and Mac OSX.



ORGAN SECTION

The growling sound, and the soul of a B3 is hard to replicate faithfully in a digital instrument. We've spent years perfecting our digital models and the Electro 3 contains the best emulation so far.



The attention to minute details is stunning, the Electro 3 is even equipped with four selectable tonewheel modes, that stretches from a clean sound to battered unit with the most dramatic setting; vintage 3. This setting even produces a sound in the background of its own, even if you don't touch any keys.

IT'S ALL IN THE DETAILS

Every function in a B3 has been considered and examined in great detail, to make the Electro 3 as true to the original sound as possible. There are key clicks derived from the original busbar behavior and the energy robbing that produces the gentle compression when you do that massive palm smear across the keyboard. To get the response right, we have included the option to trigger the organ sounds at the very top of a key's range, making it react just as fast as the original. And sometimes we couldn't resist adding functions that went a bit further, like the option to either include or exclude the 9th drawbar when Percussion was activated.



VOX AND FARFISA

The Farfisa* and Vox* models are just as impressive as the B3. The massive savage sound created by their 12-top oscillator frequency-divider designs is of course also a nosample zone in the Electro 3; you have the same behavior and unique response from our models as in the original instruments. The Farfisa Compact Deluxe, considered by many to be the mother of transistor organs, involves routing matrixes and complex filter combinations that offer a tailored sound with massive energy and high-end.



The Vox* Continental's brute design brings you a more hollow tone, but with a very intense character. Both these transistor organs have their own unique, irreplaceable personalities. Combine them with any of the Electro 3's speaker simulations, add some distortion, adjust the EQ and they will definitely get you through any organ gig with flying colors.

ORGAN SPLIT

Using the Organ Split mode, you can play two different organ registrations in a dual manual fashion, one sound on either side of a user definable keyboard split point. Connect a second MIDI keyboard to the Electro 3, to use the organ split functionality, but in a true, dual manual setup.

BRAND NEW EFFECT SECTION



The Nord Electro 3 is equipped with a great selection of high quality effects including a lush sounding reverb with five different algorithms. There is also a selection of tremolo, panning, wah-wah, phaser, flanger and chorus effects, and a ring modulator.

User can further sculpt their final sound by choosing from a selection of three amplifier simulations that can add any amount of grit and distortion from gentle to manic levels. A three-band EQ with sweepable mid-range and a compressor can be added to the final stage of the audio path.



ENHANCED ROTARY SPEAKER EMULATOR

The rotary speaker emulator originates from the award winning Nord C1 Combo Organ, with its acclaimed sound quality. This rotary speaker emulator incorporates the acoustic variations that occur when a physical speaker spreads the sound in a room, providing the full experience of when the air is moved around.

The Electro 3's rotary also features a brand new function in the addition of the Rotary Stop Mode. This allows users to switch between fast and stopped rotation and back again by using either the controls on the panel or with a foot pedal connected to the Rotor Pedal input. This is a crucial functionality that mimics the behavior of early one-speed original rotary speaker units.

Those of you who are picky about the rotary behaviors will be pleased to find several user adjustable settings like speed and acceleration times for both treble and bass rotors. These options, as well as all the other System, MIDI and Sound Menu functions are written on the right side of the panel, a great help for all those moments when the manual decided to stay at home.



MONITOR INPUT

Just plug in your mp3 or CD player to the Electro 3 to be able to play along, rehearse or jam with previously recorded music without the need of an external mixer or sound system.

The signal that is present at this input will be monitored through the Electro 3's headphone output.



WATERFALL KEYBOARD

The Electro 3 comes in two different sizes. The 61 and the 73 have the same type of semi-weighted keyboard with the waterfall profile. This is a great set of keys to play organ and pianos with.

FREE UPGRADES

OS upgrades, Pianos and samples can be downloaded free of charge from www.nordkeyboards.com



EASY-TO-USE MANAGER

The Electro 3 Manager is an easy-to-use tool that allows you to load the Electro 3 with new pianos and samples, and to arrange and make backups of the memories.

These operations are done by simple drag and drop operations or from toolbar- or menu activated actions in the application.

This application is available for free to Electro 3 owners, and is compatible with Windows XP, Windows Vista and Mac OSX.



PORTABLE

Having a bunch of great pianos, a tower of effects and three vintage organs in your studio is fun, but the Electro 3 is also designed to allow you to easily bring all those great sounds to the gig. The Nord Electro 3 is extremely lightweight and portable, yet sturdy enough to cope with the rigors of the touring life. With the optional gig bag, you can carry the massive power that this puppy contains in one hand; weighing in at merely 7,6 or 9,1 kg (15.3/18.2 lb).



NORD PIANO LIBRARY

New instruments are being added on a regular basis to the Nord Piano Library. These additions can be downloaded for free by Electro 3 users. More details about the library and additional sounds to download can be found in the Libraries Area.



XL MEMORY CAPACITY

The Nord Electro 3 has a flash memory for pianos and samples with a total size of 256 MB. 68 MB of the memory is reserved for the sample partition.

The program memory holds 128 programs.



MELLOTRON LIBRARY

A great addition to the electromechanical bliss in the Electro 3 is the ability to use the fabulous Mellotron Library. These samples will be available for free in the download area, and getting them into a 3 is achieved with a simple drag and drop operation using the Nord Electro 3 Manager.



TAILORED EFFECTS

It doesn't matter if you are in for a discreet pan or chorus, or want to get real nasty with the amp and speaker simulations or the ring modulator; you are going to love the smoking effects in the Electro 3. Ever had the idea to put a 9 foot Concert Grand in a very small room and process it with a wha-pedal, through a rotary speaker at full distortion? Now you can.



SOFT CASE

Keep your Nord instrument in perfect shape with the ultimate soft case, featuring a plush interior, thick padding, and the distinctive Nord red color.

The mid-sized pocket on the lid will hold all your cables and accessories. Carrying handles, shoulder strap, and two backpack straps allows you to carry your instrument any way you want.



NORD ELECTRO 3 TECHNICAL SPECIFICATIONS

ORGAN SECTION

- Organ section from the acclaimed Nord C1 Combo Organ.
- Three classic organ models: B3, Vox Continental, and Farfisa with full polyphony.
- 9 digitally controlled drawbars.
- Two complete organ registrations for every program.
- The drawbars of Electro 3 are represented by up/down buttons and LED bar graphs instead of the ordinary mechanical drawbars. This gives you a big advantage: when you change programs, the correct drawbar settings are shown immediately by the LEDs.
- 17 user configurable organ presets for each organ model.
- Percussion with 2nd, 3rd, normal/soft, fast/slow for the B3 model.
- User adjustable percussion levels, percussion decays and keyclick level.
- Vibrato / Chorus Control with separate functionality for each model (the classic C1, C2, C3, V1, V2, V3 options for the B3, Vibrato for the Farfisa).
- 4 Tonewheel modes: select the level of "vintage" you wish to have in your B3 sound.
- MIDI Split: The Nord Electro 3 is designed to support an extra MIDI keyboard when the Organ Split mode is activated. This makes it possible to use the Nord Electro 3 as a dual manual (Lower/Upper) organ with different drawbar settings for each manual.

PIANO AND SAMP LIB SECTION

- 5 selectable types of pianos - Grand, Upright, EPiano, Wurl & Clav/Harpsichord. Each type can contain several different models.
- 185 MB of the flash memory is allocated to the piano types.
- Each and every piano in the Electro 3 is replaceable by the user. New models can be uploaded to the Electro 3 using the Electro 3 Manager application.
- Samp Lib type can contain up to 50 samples from the Nord Sample Library.
- 68 MB of the flash memory is allocated to samples.
- Stereo pianos and samples can be played back in mono.
- 40-60 Voices polyphony.

EFFECTS SECTION

- **Effect 1** - pan, tremolo, auto-wah, pedal-wah and ringmodulator.
- Three selectable depths for the pan and tremolo, rate controlled with the Effect 1 Rate knob.
- Control pedal assigned to pedah-wah and ring modulator depth.
- **Effect 2** - phaser, flanger and chorus.
- Three selectable depths, rate controlled with the Effect 2 Rate knob.
- **Comp/Amp** - three amp/speaker simulations, compressor and rotary speaker.
- Drive/Compression amount controlled with the Drive knob.
- Rotary speed controls - Slow, Fast and Stopped.
- User adjustable rotary treble and bass rotor speeds and acceleration rates.
- **Reverb** with five algorithms - Room, Stage Soft, Stage, Hall, Hall Soft.
- Dry/Wet control.
- Three band **EQ**, with sweepable mid. +/- 15 dB gain/attenuation.



GLOBAL FEATURES

- 128 program memories.
- **Keyboard:** 61-key (5 octaves) or 73-key (6 octaves). Velocity sensitive semi-weighted "waterfall" (square front) keyboard.

CONNECTIONS

2 Audio outputs
1 Monitor input
1 Headphone output
1 Control pedal input
1 Sustain pedal input
1 Rotary Speaker speed switch pedal input
MIDI In, MIDI Out
USB interface for fast and easy download of new sounds and operating system updates.

INCLUDED ACCESSORIES

User Manual
Power cord
Nord DVD-ROM

DIMENSIONS

Nord Electro 3 SixtyOne: 900 mm (35.4"), 100 mm (3.9"), 300 mm (11.8")
Nord Electro 3 SeventyThree: 1120 mm (44.1"), 100 mm (3.9"), 300 mm (11.8")

WEIGHT

Nord Electro 3 SixtyOne: 7.65 kg (15.3 lbs)
Nord Electro 3 SeventyThree: 9.1 kg (18.2 lbs)

Specifications subject to change without notice.

nord electro 3
virtual electromechanical

* Yamaha, Steinway, Wurlitzer, Hohner, Clavinet, Farfisa and Vox are trademarks of their respective owners and are not affiliated or associated with Clavia. These trademarks are mentioned here as a reference to a sound only. Leslie is mentioned to describe a contact standard.



nord stage^{EX}

nord stage^{EX}

ONE DREAM, ONE PACKAGE,
ONE AMAZING INSTRUMENT,
- THE NEW STAGE EX.



BRING EVEN MORE OF THE
AWARD WINNING NORD PIANO
SOUNDS TO EACH AND EVERY
PERFORMANCE!
TWICE THE SAMPLE MEMORY
IN THE NEW STAGE EX.

Stunning acoustic grand samples, classic organs, electric pianos, clavinet, synthesizers, and every effect you're likely to want. A broad array of gorgeous classic sounds and effects that makes you glad you're a keyboard player.

* Yamaha, Steinway, Wurlitzer, Hohner, Clavinet, Farfisa and Vox are trademarks of their respective owners and are not affiliated or associated with Clavia. These trademarks are mentioned here as a reference to a sound only. Leslie is mentioned to describe a contact standard.

GRAND PIANO • WURLITZER • E-PIANO • TONEWHEEL ORGAN • VOX • FARFISA • SYNTHESIZER ...



Featuring the best of Nord's award-winning technologies, the Nord Stage EX hosts three different instrument sections - Organ, Piano and Synth - plus an extensive effects section. You can use two sounds of each Section simultaneously - that's two Organ manuals, two Synths, and two Pianos. These can be combined in any split or layered configuration you need for your performance.



MIPA Award
"Best Stage Piano"
2006 / 2007 / 2008

NEW FEATURES IN NORD STAGE EX

The Stage EX stems directly from the Nord Stage, but have gone through a major hardware change and also received a cosmetic makeover. The new features are:

- **Increased memory capacity for the piano samples.**

The EX units have twice the internal memory capacity compared to the former models, an increase from 128 to 256 MB.



- The front panel sports a **new color scheme.**

- The Stage EX 88 and Stage EX 76 models have **text printed on the front panel** upper rim to indicate the position and function of the rear panel jacks. (The NS Compact EX will not have these labels, there isn't room on the panel on this unit.)

The increased memory allows users to add more pianos from the **Nord Stage Piano Library**, to bring an even greater selection of these sounds to each and every performance.



The Stage's user interface is designed from a basic concept: All vital functions are represented on the front panel - easy to access, and never further away than a press of a single button. After more than 20 years of experience in designing instruments to be used by professional musicians, we know how important it is to make the technology completely transparent for the user. With the Nord Stage EX you only need to focus on your performance, which means never having to struggle with the technology.

Our patented **Pitch Stick** and **Modulation Wheel** are included for maximum musical expression.

A top-of-the-line **weighted hammer-action keyboard** makes you feel that the Stage's sound is balancing at the tip of your fingers, completely under your control. Our efficient **Morph Grouping technique** is also included, allowing you to assign sound and effects parameters to one physical controller.

All together, the Nord Stage EX is a musical, reliable, efficient, and roadworthy companion that delivers results, and provides the means to express your passion for playing. Choose from three models; 88, 76 or Compact.

nord stage EX

MODELS

The Nord Stage EX comes in three different models, 88, 76 and Compact. The 88 and 76 both feature weighted hammer-action keyboards while the compact is equipped with a semi-weighted organ (waterfall profile) keyboard. Other than keyboard type and the number of accessories available, all three models share the same set of features. The latest version - the Stage EX - boasts an internal memory which is twice the size of the previous models. This allows you to bring even more pianos to each and every performance.



MAIN FEATURES

- Organ section with faithful emulations of 3 Classic models.
- Piano section with 6 selectable categories.
- Synth section generating Subtractive, FM and Wavetable synthesis.
- External section making the Nord Stage serve as a master keyboard.
- Effects section adding comprehensive effects to your performance.

* Yamaha, Steinway, Wurlitzer, Hohner, Clavinet, Farfisa and Vox are trademarks of their respective owners and are not affiliated or associated with Clavia. These trademarks are mentioned here as a reference to a sound only. Leslie is mentioned to describe a contact standard.

THE ORGAN SECTION

The Organ Section offers three different organs. Of course, we included our famous B3 Organ model, giving you the most accurate and pleasing B3 next to the real thing. The B3 Organ offers many innovative solutions to mimic the typical B3 sound, such as:

- A true organ architecture, based on digital models of 91 tonewheels, thus always giving full polyphony and overtones with natural warmth.
- A complex digital model of the original chorus & vibrato scanner.
- Modeling of the individual random contact bounces for each partial.
- Emulation of the unique frequency characteristics of the built-in preamplifier, forming the “body” of the B3 sound.
- Simulation of the energy robbing on the tonewheels that results in the typical compressed B3 sound.
- Authentic tuning of the tone wheels according to the original B3 design.
- True B3 swell-pedal characteristics.

We also created carefully modeled emulations of two of the most famous transistor organs from the 1960s, the Vox Continental and the Farfisa Compact.

“Draw buttons” and LED bar graphs have replaced the original mechanical drawbars. This gives you the advantage of always having the correct drawbar settings after changing preset.



THE PIANO SECTION

The Piano Section includes six main sound groups: Grand Pianos, Upright Pianos, Electric Grand, Electric Pianos, Wurlitzer, and Clavinet.

Our commitment to authenticity is manifest in these pianos' subtle nuances throughout the whole dynamic range. The source instruments are recorded at multiple velocity levels, providing the most accurate and expressive pianos ever made for a digital keyboard. The key-releases were also sampled, creating the real sound of dampers returning when the keys are lifted.

The Acoustic Pianos are also recorded with sustain pedal down. When played with the sustain pedal, the Stage's pianos recreate the sympathetic string resonance produced by acoustic piano strings. This adds to the authenticity of the piano sounds by giving them natural body. The Clavinet has an equalizer of its own, which mimics the original D6 tone tabs, and also includes the four Clavinet pickup selections.

Pianos come in many varieties, and while a Steinway sounds great, it might not be the sound you need at the moment. The piano section is very flexible, allowing the user to replace any piano with other sounds from Nord's library of Piano samples free of charge. Use the Nord Stage's USB port and the Nord Stage Manager to swap sounds quickly from your Mac or PC.



THE SYNTH SECTION

Don't let the panel fool you; the Stage's Synth Section is a wolf in sheep's clothing – small, but with a big sound. After more than 10 years of designing synthesizers, we accepted a new challenge - designing a powerful synth with a few controls that would equal the quick and easy manipulation of the Organ and Piano sections. After all, why should you have to be an expert programmer to create lively and nuanced synth patches?

Our response to that challenge is the Nord Stage's "power mini synth". The Synth was created on a multi-oscillator concept involving up to 9 oscillators per voice in different algorithms, all controlled from one button and one knob:

- Classic Analog Synthesis with dual saw, hard sync, and pulse wave modulation.
- Three-operator FM Synthesis with 32 different modulation frequencies.
- Wavetable Synthesis with 32 waveforms, a first for a Nord synth.

With the Unison knob you can fatten your sound for lush pads, thick comps, and fiery leads. We've included a 12/24 dB LowPass Filter with resonance, an Amp envelope, a Modulation envelope, an LFO, and a two band equalizer. Three different Synth banks are provided – Synth, Pad, and Bass – for the creation and storage of your own patches, and each bank holds up to 100 sound programs.



FREE UPGRADES

OS upgrades, Pianos and samples can be downloaded free of charge from www.nordkeyboards.com



THE EXTERN SECTION

The Nord Stage wouldn't be a master keyboard if it couldn't control external devices with ease. The Extern Section is designed solely for this purpose, so that any MIDI-connected gear gets seamlessly integrated with the Stage's built-in instruments. Zones, splits and layers are handled exactly as if the external equipment was a part of the Stage itself. All settings are saved together with a Program so advanced setups can be immediately recalled in real-time during a performance.





NORD STAGE CLASSIC REVISIONS

The Stage models have been subject to a few makeovers. The very first series of the Stage are now called **Revision A**, with a smooth red paint on the top panel.

Revision B that followed were augmented with brackets for the music stand and also introduced the textured paint on the panel and the chassis. Revision B units are also identified with the text revision B under the Nord Stage logo to the right on the panel.

Revision C were introduced in 2008, and have only one small, graphical change - the label Mono were added to the Clavinet Medium/Soft button to indicate the possibility to use the stereo pianos in mono. All revisions can be updated to, and use the same, latest operating system and the same piano sounds.

The new **Stage EX** series share exactly the same functionality as the classic models, and vice versa. The differences are the new color scheme on the panel, labels on the rim to indicate the location and functions of the rear panel connectors and the EX:s increased memory size.

THE EFFECTS

No sound is complete without the proper use of effects. In the Nord Stage we incorporated all the effects required to cover musicians' needs. All of the three instrument sections - Organ, Piano and Synth - can individually be routed through the Stage's built-in effect units. Turning the effects on and off, and controlling the routing is easily done by a touch of dedicated buttons, readily accessible at the bottom of each effects unit.



UNIT ONE

Here you can choose from Tremolo, two Wahs, an Auto-Wah, and an AutoPan. Use the AutoWah with a Clavinet for raw funk licks, create a psychedelic vibe with an Electric Piano on AutoPan, or give a Wurlitzer some body using the Tremolo. There is also a Ring Modulator on board, an effect used by many experimental and electronic musicians.

UNIT TWO

The two Phasers, two Flangers, and two Choruses are modeled from the classic analog stomp boxes that define the sound of popular music. These swirling Phasers, metallic Flangers, and thick Choruses that are used by uncompromising professionals everywhere are crystal clear and faithfully simulated on the Nord Stage.

DELAY

A delay unit has been included to create haunting echoes or slap back effects. The delay also supports a ping-pong mode, and the tempo is easily adjusted with the tap-tempo button. A recent update provides you with the option of two delay modes. The new Analog mode will change the pitch on any repeats if the delay time is changed for those classic "warped" sounds.

EQ/AMP SIMULATION

This effect section combines a three-band equalizer with a sophisticated amplifier and speaker cabinet modeler. Classic amplifiers and speakers, are a crucial part to make vintage Electric piano sounds come alive. NORD offers the famous sounds of tube and solid state amplifiers with a Twin Reverb, a Jazz Chorus 120 and a Wurlitzer speaker cabinet model. When no Amp Model is selected, the unit provides a neutral three-band EQ and a crunchy overdrive.

ROTARY SPEAKER

There is also a Rotary Speaker emulation based on the Leslie 122, which not only brings an essential character to a live organ performance, but can also be used with any of the electric or acoustic piano sounds or the synthesizer.

MASTER EFFECTS

Finally there is also a Compressor and a Reverb, which are placed at the end of the sound chain, helping to blend your sounds more naturally together. The Reverb unit has Hall, Stage and Room spaces to create different atmospheres for your sounds, while the simple Compressor helps you keep the overall mix tight and under control.

ACCESSORIES



KEYBOARD STAND

The Nord Stage 88/76 can be fitted with legs reminiscent of a classic electric piano. They are very easy to assemble and disassemble for transport. The legs are optional and sold separately.

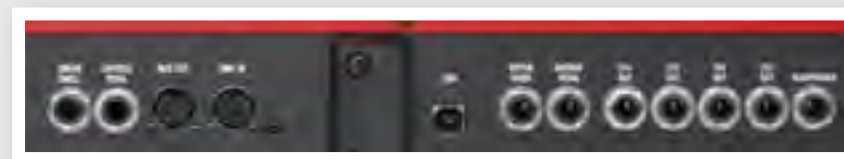
SOFT CASE

A semi-hard, padded, customized soft case with wheels is available for safe and comfortable transportation.

MUSIC STAND

An easily attachable music stand is also available for the 88/76 models. (From revision B models only)

NORD STAGE EX TECHNICAL SPECIFICATIONS



GENERAL

- Master Level Control
- Wooden Pitch Stick
- Modulation Wheel
- 21 x 6 Program Locations
- 2 Live Buffers
- 2 Individual Panel Setups
- 3 Morph sources (Modulation Wheel, Control Pedal, Aftertouch)

ORGAN SECTION

- B3 Tone Wheel Organ-, Vox Continental- and Farfisa-models with full polyphony
- 9 Digitally Controlled Drawbars
- Percussion Controls
- Vibrato / Chorus Control
- 2-Part Multitimbral (2 manuals)

PIANO SECTION

- Acoustic Grands
- Upright Piano
- Electric Pianos (Mk I, II, V, Suitcase)
- Wurlitzer A200 Electric Piano
- Clavinet D6
- Harpsichords
- CP-80 Electric Grand
- 40-60 Voices Polyphony
- 4 Selectable Velocity Curves
- Clavinet EQ Controls
- 2-Part Multitimbral

SYNTH SECTION

- **Analog synthesis:** 10 Modeling Waveforms - including Dual Saw, Hard Sync and PWM
- **FM synthesis:** 2 & 3 Operator FM Synthesis
- **Wavetables synthesis:** 77 waveforms
- 16 Voices Polyphony
- Unison Control - with no reduction in polyphony

- Timbre Controls
- Amplitude Envelope
- Modulation Envelope
- 12/24 dB LowPass Filter with Resonance
- 300 Memory Locations, 3 Categories
- 2-Band Equalizer
- 2-Part Multitimbral

COMMON PARAMETERS

- Level Control
- Zone (split assignment) Control

INSTRUMENT EFFECTS

- **Unit One:** Ring Modulator, Tremolo, Pan, Wah 1, Wah 2, AutoWah
- **Unit Two:** 2 Flangers, 2 Phasers, 2 Chorus Delay - includes Ping Pong and Tap-Tempo Function
- **Amplifier/Speaker Simulation:** 3 types of Speaker simulations, 3-band Equalizer and Overdrive
- **Rotary Speaker:** selectable Speed and Overdrive

MASTER EFFECTS

- Compressor
- Reverb - 5 Algorithms

KEYBOARD

- **88/76-models:** Hammer Action Weighted Keys
- **Compact-model:** Medium Weighted Keys
- Aftertouch
- Supports 3 split zones with visual LED indication

CONNECTIONS

4 Assignable Audio Outputs
Stereo Headphone Output
Sustain Pedal
Rotor Pedal
Organ Swell Pedal
Control Pedal
MIDI In
MIDI Out
USB

INCLUDED ACCESSORIES

Owner's Manual
Sustain Pedal (Nord Stage 88 and 76 only)
Power Cord
Nord CD/DVD-ROM
USB Cord

DIMENSIONS

Nord Stage EX 88: 1297 mm (51"), 121 mm (4.5"), 334 mm (13")

Nord Stage EX 76: 1132 mm (45"), 121 mm (4.5"), 334 mm (13")

Nord Stage EX Compact: 1111 mm (44"), 102 mm (4"), 297 mm (12")

WEIGHT

Nord Stage EX 88: 18,5 kg (41lb)

Nord Stage EX 76: 16,5 kg (36lb)

Nord Stage EX Compact: 9,7 kg (21lb)

Specifications subject to change without notice.

* Yamaha, Steinway, Wurlitzer, Hohner, Clavinet, Farfisa and Vox are trademarks of their respective owners and are not affiliated or associated with Clavia. These trademarks are mentioned here as a reference to a sound only. Leslie is mentioned to describe a contact standard.

nord wave

S Y N T H E S I Z E R



**OUR LATEST TECHNOLOGY ALLOWS
YOU TO INTEGRATE DIGITAL SAMPLES
IN AN ANALOG ENVIRONMENT. MASSIVE
WAVEFORM CAPABILITIES, FILTERS AND
EFFECTS WILL GENERATE SOUNDS MOST
DEFINITELY NEVER HEARD BEFORE.**

You might get the impression you are looking at a regular analog style synthesizer. Nothing could be more right - nothing could be more wrong. Based on a legacy of inventing virtual analog synthesizers almost 15 years ago, Nord takes the new generation of lead synthesizers to the next level. The Nord Wave gives you traditional analog sounds that interact and coexist with pretty much anything you want; by combining analog, FM synthesis, wavetable and sampled waveforms - you can use literally any standard audio file as a sound source. It is a great sample player and analog synthesizer, and so much more!





The introduction of sample players in the mid eighties created a gap in the world of synthesizers - a gap that twenty years later only has grown wider. The Nord Wave closes that gap, and brings the user replaceable samples to life again by integrating them in a virtual analog environment. Does the better of two worlds sound too pretentious for you? Wait until you have heard the Wave.

WHAT IT IS ALL ABOUT

By having two oscillators capable of producing a vast array of sounds from classic analog waveforms (with sync), FM synthesis, wavetables, sampled waves (single cycle waveforms with attack) as well as noise and other miscellaneous waveforms, the Nord Wave has an unprecedented pallet of sounds for you to use as foundation. Need a rich and full string quartet? No problem, just call up a string sample. Want a highly resonant screaming lead? Sure; virtual analog is there, but why not combine them, not just mix them together? With the Wave, you can create an analog lead with the harmonic content of the sampled string quartet! With oscillator modulation you can transfer the character of one sound to the other - for instance, a sampled string to an analog square. By controlling the amount of modulation the effect can range from very subtle to extremely aggressive, so that the original waveforms are no longer recognizable. Within moments you will experience sounds never heard before, sounds that will function as a great source of inspiration and lift the joy of playing and sound design to new levels.

DIGITAL SAMPLES IN AN ANALOG ENVIRONMENT

The sound of a resonant filter with a 24dB slope applied to a sampled sound brings it so much to life that some times this is all you need, but there are many other parameters available to affect your samples. All elements of an analog synthesizer can be incorporated: amplifier and modulation envelopes, LFOs, filters, and effects.

OSCILLATOR MODULATION

Oscillator 1 uses two types of oscillator modulation to bring out different characteristics to a blended sound: Phase Modulation and Frequency Modulation. Disparate sounds can be achieved depending on the combination of waveforms generated by the two oscillators – using oscillator modulation, particular characteristics of those waveforms can be seamlessly blended and enhanced to make a new kind of sound. For example, an analog triangle waveform will adopt much of the details of the modulating waveform and make an almost transparent, synthesized effect using Phase Modulation. An analog saw waveform will still sound hard when modulated, so wavetables can be used instead to create variations in tonal character. Frequency Modulation has a more dramatic effect, widening the harmonic content and preserving more of the character of the original waveform.



HIGH QUALITY SAMPLES

To us, quality supersedes quantity. Great samples are not determined by their size in bytes, but by how well their detail and character are preserved. To assure that our samples meet the highest NORD standards, we have teamed up with several sample creators – such as Kirk Hunter Studios and Sonic Reality – and licensed some of the very best samples available. NORD online offers a large number of top quality samples specially created for the Nord Wave – available free of charge.

USER FRIENDLY TECHNOLOGY

By storing sample data in a Flash memory, existing samples can be easily and quickly replaced, including the factory preset samples. NORD's compression algorithm allows for, on average, 2 to 3 times data compression of any samples you want to download to the Nord Wave – without any loss of quality. Flash memory also means that samples are instantly available, meaning fast load times even for complex programs. No hard drive or other type of media is needed for storing samples when you shut down the Wave; once the unit has powered up you have direct access to all the samples at the turn of a knob.

THE RETURN OF A LEGENDARY SOUND



Exclusively available to the Nord Wave are the classic sounds of the Mellotron, the tape-based sampling pioneer from the early sixties. When it comes to instruments having an impact on modern music evolution, the Mellotron is second only to the electric guitar. A tape-based electromechanical keyboard was invented by Harry Chamberlin as early as 1946, but it wasn't until 16 years later that the Mellotron company adopted the technology, making the instruments commercially available. Playing back recorded sounds from a keyboard instrument had a major impact on the music scene in the sixties and the seventies, and opened the door to modern sampling technology. The memorable aspect of the Mellotron are the choirs, brass, and string sounds created to simulate orchestral textures, and they were used by synthesists to enhance countless classic recordings which could be reproduced live. The Nord Wave comes shipped with a selection of the 68 tapes used by the Mk I, Mk II, M300 and M400 Mellotrons. The rest of this amazing library will be available for free to the Nord Wave users on a DVD or as downloadable archives. By sampling the sounds using fresh tape copies and a newly manufactured Mellotron instrument – built using vintage components – the Nord Wave reproduces these sounds with all hisses and fizzes exactly as they were meant to be.

Mellotron®
registered trademark of www.mellotron.com



nord wave
SYNTHESIZER

USE YOUR OWN SAMPLES

Nord Wave offers the unprecedented power to use any audio recording as an oscillator source in a virtual analog environment. Simply import any standard audio file to the Nord Wave Manager software, map it to a key, and you are ready to go!

EASY TO USE MANAGER

The Nord Wave Manager, developed for OS X and Microsoft Windows, is designed to keep things fast and simple. Back up and rearrange programs and samples, transfer Sample Instrument files, or map your own audio files across the keyboard. You will appreciate the same directness as you'll find on the Nord Wave panel, in the way the Manager works. The Manager includes several features to speed up the usually tedious job of arranging and adjusting individual samples. If you have a single audio file with chromatic (or any other interval) recording of each note, you will be up and running within seconds, it is that fast and intuitive to use. Keeping functionality in focus, it provides the visual tools needed to do the job as fast as possible without a cluttered GUI. The Nord Wave Manager will be a powerful tool to get your samples into the virtual analog environment of the Nord Wave.

TWO SYNTHS IN ONE

Using the Slot function, you can seamlessly switch between two sounds without cutting off any sustaining notes, or you can layer two sounds together

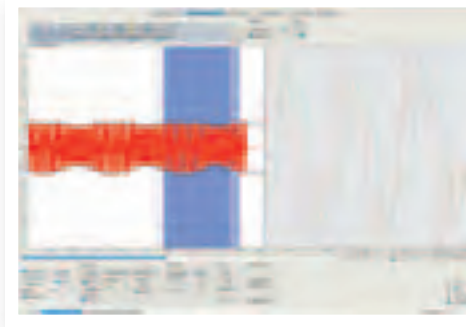
to create a massive sound palette. Everything is easily controlled by the Slot A & B buttons conveniently located near the pitch stick, mod wheel, and octave-switching buttons, making them as much performance controllers as programming features.

MODULATION EXCESS

One way to assess the flexibility of a synthesizer is to look at its modulation capabilities. The Nord Wave comes with plenty of these with two LFOs with wide frequency ranges, one of these can actually double as an envelope if it is set to single cycle mode. These two LFOs have five waveforms and seven modulation destinations each. And you do not have worry about using an LFO on creating vibrato, that important function has its own set of parameters. There is also a dedicated Modulation Envelope that can be set in AD or AR-modes, with six possible destinations.

FILTER FLEXIBILITY

High quality resonant filters are one of the most important ingredients when creating memorable sounds. The Nord Wave incorporates a total of six different high-quality filter types. Included with standard low-, high- and band-pass filters, the Wave features a multi peak filter, comb filter, and a format filter, which creates vowel effects. Filter parameters can be modulated via the dedicated ADSR envelope, velocity, any of the LFOs, or the Modulation Envelope. Using Morph Grouping you can even modulate the modulators!





MORPHING

Nord's unique Morph Grouping technique allows you to alter the setting of virtually any sound-related parameter in real time with the modulation wheel, control pedal, note velocity or note number. You can have the filter open up as you strike a key harder, or use the modulation wheel to change the amplifier envelope from pad-to pluck-style at the same time as the filter resonance is increased. Several Morph setups can be used simultaneously, allowing you to change your sound drastically as you play. Complex Morph scenarios are available, and setting them up could not be easier or more intuitive - simply hold the corresponding Morph controller button and tweak the parameters all you want.

FREE UPGRADES

OS upgrades, Pianos and samples can be downloaded free of charge from www.nordkeyboards.com

EFFECTS

The effect section gives your sound a final touch. Whether it is just a small amount of reverb, chorus, a massive delay, or tube-style overdrive, your sounds become more dynamic with rich effects without having to use outboard gear. Five different reverb algorithms are provided, from a small room to a large hall. The delay has stereo capabilities, and a tap-tempo function as well as selectable feedback amount. There are three chorus algorithms, and the tube overdrive can span from a subtle boost to crushing distortion.

CHORD FUNCTION

The Chord function lets you add any number of intervals to the notes you are playing. Add a single 5th note for a classic synthesizer effect, or a chord - you decide! Simply hold the Chord button and play the intervals on the keyboard. Release the chord button and the intervals you just played will be added to any single note you play.





STICK TO THE PITCH

The Clavia-patented pitch stick gives you pitch and vibrato control similar to what a guitarist or a violin player has. With no detent, or "dead-zone", you can apply very subtle vibratos, pitch changes, and everywhere in between.

IN THE RIGHT PLACE

Ergonomically fitted around your left hand are pitch and modulation controls, the Program Change-dial, Octave Shift, Chord, Panel, and Keyboard Focus buttons. With all these controls in one place, quick and easy adjustments to major settings during performances are possible.

BUILT FOR PERFORMANCE

With 25 years of experience of designing instruments to be used by professional musicians, we know the importance of making the technology completely transparent. Control of your sound is paramount to performance, and that cannot be honored with just a few knobs for an endless array of submenu parameters. That is why we have a physical knob or button for every sound-related parameter on the front panel. No menus or page buttons should limit your expressiveness during a performance.

ACCESSORIES

Keep your Nord instrument in perfect shape with the ultimate soft case, featuring a plush interior, thick padding, and the distinctive Nord red color. The mid-sized pocket will hold all your cables and accessories. Carrying handles, shoulder strap, and two backpack straps lets you carry your instrument any way you want.

NORD WAVE TECHNICAL SPECIFICATIONS

GENERAL

4 octave (49-keys) velocity and aftertouch sensitive keyboard
189 MB Flash Memory (180 MB for user samples)
18 stereo voices
Wooden Pitch Stick
Modulation Wheel
LCD-window and Value Dial
Master Level Control
3 Morph Sources (Modulation Wheel / Control Pedal, Note Number, Note Velocity)

SYNTH SECTION

2 part multitimbral synth section:

OSC1: Triangle, Square, Saw (with sync), 62 wavetables, 2-operator FM, Noise.

OSC2: Triangle, Square, Saw, up to 99 Sampled Instruments (user defined), 2-operator FM, 22 Sampled Waves. Transpose and Fine Tune.

Oscillator Modulation:

Frequency Modulation or Phase Modulation with Amount Control.

Filter: 6 types of single or multi *mode filters with Frequency, Resonance, Keyboard Tracking and Envelope control.

Amplifier Envelope: ADSR controls.

Modulation Envelope: selectable AD or AR controls.

LFO 1 Waveforms: Square, inverted Saw, Triangle, Random and Soft Random.

LFO 2 Waveforms: Square, Saw, Triangle, Random and Soft Random.



Mono Mode: Mono or Legato with Glide-function.

Chorus: 3 intensity settings.

EQ: 2-band fixed.

Output Level

PROGRAM SECTION

1024 program locations

Slot A & B buttons

Octave Shift

EFFECT SECTION

Tube style Overdrive

Stereo Delay with tap-tempo function.

Reverb with 5 algorithms

CONNECTIONS

2 Line Level Audio Outputs

Stereo Headphone Output

Sustain Pedal

Control Pedal

USB-interface

MIDI in & out

DIMENSIONS

870 x 274 x 98 mm
(34.3 x 10.8 x 3.9")

WEIGHT

6 kg (13.3 lbs)

Specifications subject to change without notice.

Featuring samples from 3rd party vendors like:





nord **C1**
COMBO ORGAN

**EARTHY AND VIVID ORGAN SOUNDS
HAVE REMAINED POPULAR THROUGH-
OUT THE DECADES OF POP AND ROCK
& ROLL MUSIC. UP UNTIL NOW, THESE
BREATHING, GROWLING SOUNDS
COULD ONLY BE FOUND IN HEAVY,
BULKY VINTAGE INSTRUMENTS.**

Apart from difficulties in sourcing, restoring, and maintaining these vintage organs, their sheer size and weight make them anything but ideal for the gigging musician – especially when you add out-board effects, amplifiers and speakers. Nord C1 Combo Organ brings you the very best of those classic setups in a single package.

CAN YOU TELL THE DIFFERENCE?



Could a rotary speaker simulation sound as good as the real deal? For a small gig it might be good enough, but when recording professionally or playing a large scale club you must have the real stuff, right?

We used the finest microphones on the planet, contracted a highly acclaimed organ player and recorded through a vintage L122-type rotary speaker, as well as from the Nord C1 line level outputs featuring our new rotary speaker simulation.

Can you tell which take belongs to what millennium? Check out the Nord C1 Soundbites on www.nordkeyboards.com

nord **C1**
COMBO ORGAN

THREE IN ONE!

The dual manual Nord C1 Combo Organ comprises three types of vintage organs; a classic tonewheel, Vox* Continental and Farfisa* Compact Deluxe, all carefully modeled from their vintage originals. Also featuring our famous tube style overdrive, rotating speaker simulation, delay, reverb and 3-band EQ effects, the Nord C1 Combo Organ will tailor sounds for your body, mind and soul.



UNDER THE HOOD

The original mechanical tonewheel design as well as the Vox* and Farfisa* transistor designs result in diverse interactions between the different parts involved in the sound generating process. Modern sampling technology is able to play back the result of these interactions, but cannot duplicate the dynamic and random processes involved. Without these crucial steps represented, the response and feel of actually playing the instrument is inevitably lost.

The solution is a real-time, DSP-based model describing the construction and interaction between each part involved. The Nord C1 Combo Organ offers three different organs – all carefully modeled from vintage originals – with the sonic result of each part of the tonewheel and transistor designs recreated faithfully.

* Yamaha, Steinway, Wurlitzer, Hohner, Clavinet, Farfisa and Vox are trademarks of their respective owners and are not affiliated or associated with Clavia. These trademarks are mentioned here as a reference to a sound only. Leslie is mentioned to describe a contact standard.

DIGITAL DRAWBARS & SWITCHES

The fabulous sound aside, some areas of the original instrument's design were up for improvement. For instance, the ability to store your favorite sounds and quickly recall them as you play. This gets hard, as the original switches and drawbar levers physical position will not match the stored sound setting. The Nord C1 Combo Organ's digital drawbars features LED segments that instantly light up to show the current setting. The digital drawbars are just as fast as their physical counterparts, and setting up your sound from scratch – even live – is done in no time at all.

3RD SET OF DRAWBARS

No two manual organ would be complete without the ability to play bass notes on a pedal board. The Nord C1 Combo Organ includes two additional bass register drawbars with selectable timbre from either vintage tonewheels or a synth bass. The bass can be controlled with any MIDI-enabled bass pedal board, or by splitting the lower manual.

LIVING EFFECTS

The built-in 3-band equalizer along with three types of speaker simulations and an extremely powerful overdrive offers you total tonal control of your sound. Add a feedback-delay with tap-tempo functionality, and several types of reverberation and you have an all-in-one effect section with stunning sound right out of the box.

ROUND AND ROUND

The rotary speaker simulation from NORD's award winning Nord Stage and Nord Electro series has been further improved, and now features an even more life-like experience. The Nord C1 Combo Organ's rotary speaker simulation incorporates the acoustic variations that occur as a physical rotating speaker spreads the sound around in a room, providing the full experience of moving the air around.



Optional Half Moon Switch accessory

BEST FRIENDS

Even though our rotary simulation is nothing less than amazing, we are the first to acknowledge that the C1's best friend in the pursuit of sonic excellence is an external rotary cabinet. Connect the C1 to a quality cabinet with the standard 11-pin Leslie* connector and use the Half Moon switch or the C1 panel buttons to control the rotary speed. The Leslie* interface on the C1 uses a high voltage output which is vital to experience the true soul of a screaming, or for that matter, a whispering organ. This high level output is also available on a 1/4" jack on the C1 back panel.

AMPLIFY AND TESTIFY

You can divide the stereo line output to separate tonewheel and transistor organ outputs, and connect them to separate amplifier set-ups.

SUPERIOR RESPONSE

An ultra low trigger-to-sound response time in the Nord C1 Combo Organ offers superior performance compared to any hardware and software products. Also, like the vintage original, the sound generation is started the very instant a key is pressed, not like conventional digital keyboard action, where the sound begins when the key has hit bottom.

MORE THAN VOLUME

One type of input from the player is often neglected, and yet it plays a vital part of your performance; the swell pedal. Without the proper response of the pedal you can easily lose focus when expression is called for. It is more than just volume control - the frequency response characteristics are also modeled. Furthermore, a wide array of expression pedal manufacturers are supported to give you the perfect volume swell in every situation.



ON THE ROAD

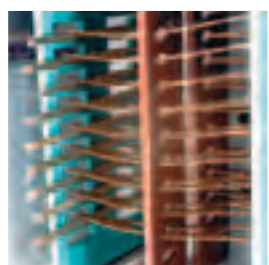
Having three vintage organs in your studio is fun, but it's even better when you can easily carry them with you to a gig. That is why the Nord C1 Combo Organ is lightweight and very portable. With the optional soft case you can carry the massive power of three vintage monster organs in one hand; weighing in at merely 15 kg (33 lbs) you will save energy for your performance.

APPEARANCE

The Nord C1 Combo Organ is not just about smart design and gorgeous sound; it is about stage presence. Its bright red panel and red varnished birch side panels give the organ a classic style with a modern approach.

THE NEW TONEWHEEL BEAST

Nord has been developing DSP-based vintage organ models for a decade, and the Nord C1 Combo Organ is built on that award-winning legacy. Nord's new 2nd generation tonewheel organ model provides the perfect sound and playing experience. You now have the most detailed response not only in what you hear but also to how it feels playing the instrument. The Nord C1 Combo Organ moves beyond "close enough" to "dead-on" sound and feel.



* Yamaha, Steinway, Wurliitzer, Hohner, Clavinet, Farfisa and Vox are trademarks of their respective owners and are not affiliated or associated with Clavia. These trademarks are mentioned here as a reference to a sound only. Leslie is mentioned to describe a contact standard.

Miniature images show the original vintage components.

GO WITH THE FLOW

The unique tonewheel generator design is the heart of the vintage sound. This is where the basic sound is created by 91 spinning discs and magnetic coils. Nord has modeled all tone generators for a full polyphony of 147 notes. The model also includes significant artifacts like wheel crosstalk, cable leakage and coil energy robbing. Especially the energy robbing is crucial for organ playing techniques. Acting as a gentle dynamic level compression, it gives you the possibility to do slides across the keyboard with a dynamic sound that is full and pleasant.

PERCEPTIONAL PERCUSSION

The Vintage Percussion's mono-polyphonic character creates an intuitive feedback as you play, and is a defining characteristic of the classic tonewheel organ. All components involved - filter, distortion, and envelope characteristics - have been carefully and faithfully replicated.

THE PERFECT CLICK

One of the most important sound factors for a tonewheel organ is the transient of a starting note, also known as the "click". This transient is not just a click sound added to the tone. It originates from how the mechanical busbar switches turn on all nine partials of the sound. Nord have made a model of virtually all 1200 switches of the busbar matrix simulating how every single switch randomly bounces at the onset of a note.

THE CHORUS/VIBRATO EXPERIENCE

The Nord C1 Combo Organ's chorus and vibrato were created in the same manner as the tonewheel models - analyzing and replicating the physical components involved in their mechanical ancestors. More than a mere simulation of these effects, the C1 Combo Organ's chorus and vibrato are as alive as the tonewheels themselves. The rotating design of the vintage scanner has a deep impact on the organ's sound. Matching the correct speed is easy - the life is in the characteristics of the analog circuitry scanned by the turning capacitive plates.

TRANSISTOR MANIA

The Nord C1 Combo Organ includes models of the two most popular transistor organs of the 1960s, offering you that massive savage sound created by their 12-top oscillator frequency-divider designs. As with the Tonewheel model this is a nosample zone; you have the same behavior and unique response as the original instruments. The Farfisa* Compact Deluxe, considered by many to be the mother of transistor organs, involves routing matrixes and complex filter combinations that offer a tailored sound with massive energy and high-end. The Vox* Continental's brute design brings you a more hollow tone, but still with a very intense character. As with the tonewheel organ, both transistor organs have their own unique, irreplaceable personalities. Combine them with any of the Nord C1 Combo Organ's speaker simulations, add some distortion, adjust EQ and they will definitely light your fire.

ACCESSORIES

HALF MOON SWITCH

With the Half Moon Switch you can control the speed of the built-in rotating speaker simulation as well as an external rotary speaker connected via the 11-pin Leslie® connection. The Half Moon Switch offers 3 speed settings (slow – stop – fast) and is easily attached without the use of any tools at various locations along the left side of the lower manual.

SOFT CASE

The Nord C1 Combo Organ is an instrument you would cherish as much as owning the original organs in mint condition. Keep your Nord C1 Combo Organ in perfect shape with the soft case, featuring a plush interior, thick padding, and the distinctive Nord red color.

HEIGHT EXTENDABLE KEYBOARD STAND

The Nord C1 Combo Organ's legs attach to the bottom of the organ, and are easily detached and stored in the gig bag's pocket. The legs height are comfortable for sitting down and playing, and by using the included leg extenders you can match the height of the original tonewheel organ, which provide enough comfort and space when using a pedal board.

MUSIC STAND

The strong, metal Music Stand attaches to mounts included on the back of the organ, and can accommodate four sheets of music.



nord **C1**
COMBO ORGAN

* Yamaha, Steinway, Wurlitzer, Hohner, Clavinet, Farfisa and Vox are trademarks of their respective owners and are not affiliated or associated with Clavia. These trademarks are mentioned here as a reference to a sound only. Leslie is mentioned to describe a contact standard.

A red and black digital piano is shown from a low angle, focusing on the keyboard. The piano has a bright red upper body and a black lower body. The keyboard features white and black keys. In the top right corner, there is an inset image showing a close-up of the control panel, which includes several buttons and a small display screen. The text "Spe" is visible on the right side of the inset.

Master Level Control
100 Program Locations
2 Live Buffers

- 3 Organ Models:
 - *Classic Tonewheel Organ*
 - *Vox* Continental Transistor Organ*
 - *Farfisa* Compact Deluxe Transistor Organ*
- Full Polyphony
- 20 Digitally Controlled Drawbars
- 6 Drawbar Presets per Program Location
- Percussion Controls
- Vibrato / Chorus Control

- 3-band Equalizer
- Overdrive
- 3 types of Speaker Simulations
 - including Rotary Speaker with selectable speed (slow - stop - fast)
- Delay - with feedback and tap-tempo function
- Reverb - 5 algorithms

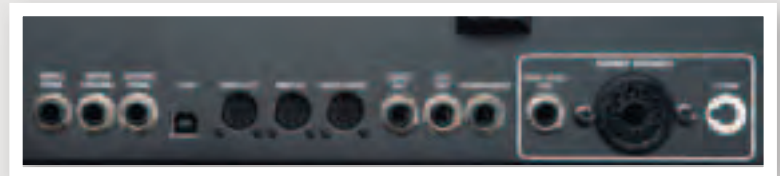
2 x 61 Medium Weighted Waterfall Keys

Stereo Headphone Output
2 Line Level Audio Outputs

DIMENSIONS

950 x 163 x 445 mm (37,4 x 6,4 x 11,3")

15 kg (33 lbs)



Specifications subject to change without notice.



nord lead[®] 2X
VIRTUAL ANALOG

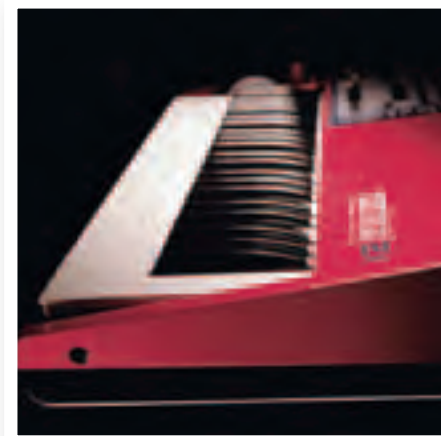
nord lead[®] 2X
virtual analog

nord lead[®] 2x

virtual analog

DEBUTING IN 1995, THE FIRST NORD
LEAD VIRTUAL ANALOG SYNTHESIZER
TOOK THE MUSIC WORLD BY STORM.
IT INSTANTLY BECAME AN INDUSTRY
STANDARD AND TAKES A PLACE
AMONG THE MOST REVERED CLASSIC
SYNTHESIZERS.

Its warm analog sound coupled with cutting-edge digital technology moved the Nord Lead into a “leading” position in the synthesizer community. Musicians from all over the world loved its simplicity, intuitive design, and its musicality and expression offered with the virtual analog concept.



The Lead 2 improved upon the original Nord Lead, including an expanded polyphony. A decade later, the Nord Lead, and its descendant the Nord Lead 2, are still among the most popular synths ever built. Used world-wide on stage and in studios, the Nord Lead series has contributed to the signature sounds of some of the most popular musicians and producers known today ... and we want to keep it that way!



THE NORD LEAD 2X - REBIRTH OF A CLASSIC

Why change a winning concept? We didn't! With the Nord Lead 2X, we simply upgraded the hardware, maintaining the same concept and sound. Virtual analog sound will live on for years to come, and the Nord Lead 2X is part of that legacy.

The 2X features all the characteristics of its predecessor, and incorporates many new features as well. The "in your face" sound has been enhanced with 24-bit D/A converters. The preset memory houses 7 x 99 factory Programs, 3 x 100 factory performances, and 7 x 10 Percussion Kits. Additionally, the user banks give you room to store your own sounds - 3 x 99 Programs, 3 x 100 Performances, and 3 x 10 Percussion Kits. The polyphony has been upgraded to 20 voices as well.

The Nord Lead 2X is compatible with the Nord Lead 2, so you can transfer your custom sounds directly via MIDI. It preserves all the essential parts of the Nord Lead 2, including the user fast and easy interface and its characteristic sound.

The Nord Lead 2X continues the tradition of Nord's unique method of sound generation. Mathematical simulations of the signals generated by analog oscillators are the basis for the incredible sound that speaks for itself. People know Nord by its sound, and the Nord Lead 2X gives you that certain quality that is unmistakable!

THE STAGE AND STUDIO SYNTH

The compact and smart design makes it equally perfect for live performance and for production studio work. With 26 knobs and 27 buttons - all sending MIDI controller data - the Nord Lead 2X communicates with every piece of MIDI gear in your setup.

In your studio, the Nord Lead 2X can be used as a sound design tool and a MIDI controller in one. Every production studio needs a synth, and what can be more reliable than a dedicated hardware synth that allows realtime sculpting of custom sounds?

Sporting 20 voices of polyphony, it is perfect for layered pads, screaming leads, and thick booming basses. The keyboard can be split, and two sounds can be layered on either side of the split point. You can have four simultaneous programs playing at once, and with a movable split point, the possibilities are captivating.

The Nord Lead 2X is 4-part multitimbral, and these four parts are used together in the Performance Mode. It also has four assignable outputs, so each Performance voice can be routed to its own analog output. Imagine the 2X in a multi-monitor studio setup, or in a creative multi-speaker PA system, and you can begin to see how much fun the Nord Lead 2X can be.

SOUND GENERATION

Virtual Analog Synthesis. Clavia has analyzed analog synthesizer design in detail and implemented the research in several digital models. The Nord Lead 2X employs mathematical simulations of the electronic signals generated by analog oscillators, instead of using waveform tables.

VIRTUAL ANALOG

Part of the allure of classic synthesizers is the physical control of the sound. If you want to change the shape of the sound, you turn a knob. Then digital technology changed synthesizers, replacing those

knobs with a handful of buttons, a small LCD, and a top-panel graphic that displayed the sound engine's routing. Virtual analog brings the technology and physical control together, recreating the warm, thick sound



of analog synths without the overheating or tuning deficiencies. Modern technology allows the knobs to not only digitally manipulate the internal sound, but also send MIDI information to be captured in a sequencer or change a parameter on another MIDI-enabled device.

Nord is known for many things, including the unique Pitch Stick and modulation wheel combo. With the Pitch Stick, you can create your own vibrato, much like a guitarist or violinist, without the "dimple" resting place other pitch benders use. The "dead zone" has been conquered! The ergonomic handling adds another dimension to your performance.

nord lead[®] 2X
virtual analog

VELOCITY PROGRAMMING

A special Velocity Programming section can be controlled by the Modulation Wheel, making it possible to continuously morph between parameter settings. This feature is a musically expressive tool that allows you to shape your sound in realtime.

MIDI

Let's go MIDI controlling! In the studio, the Nord Lead 2X offers real time MIDI recording of knob settings and special "MIDI patches" to recreate many of the effects produced by external patching on traditional units. For example, let your pre-recorded drum pattern trigger filter and amplifier envelopes, where the hi-hat pattern triggers the filter envelope and the kick drum pattern simultaneously triggers the amplifier envelope.

...IS FOUR SYNTHS IN ONE!

There are four parts which are directly accessible from the front panel. This makes it possible to instantly create layers with up to four different sounds, where each separate sound in the layer can easily be edited in real time. Each sound can have its own independent output. Make up super patches in the Performance section. Create monster basses and mega pads.



NORD LEAD 2X RACK VERSION

Nord Lead 2X is also available in a rack version; Nord Rack 2X.



NORD LEAD 2X TECHNICAL SPECIFICATIONS

POLYPHONY

20 voices. 4 part multitimbral.

SPECIAL FEATURES

Velocity Morphing: each function, controlled by a knob, can be controlled to respond to keyboard velocity. Wheel Morphing: each function, controlled by a knob, can also be controlled by the Modulation Wheel/Control Pedal to continuously fade between two sets of values.

PERFORMANCE CONTROLLERS

4 octave velocity sensitive keyboard with octave shift buttons (+/-2 oct.). Keyboard Split, two sections. Modulation Wheel, the Pitch Stick (with no dead zone at zero crossing), 1 pedal input for sustain and 1 for expression pedal. Patent pending for the Pitch Stick.

USER INTERFACE

3 digit display, 26 knobs and 27 buttons for program editing.

OSCILLATOR SECTION

OSC 1 generating sine, triangle, sawtooth or pulse with adjustable width, waveforms. OSC

2 generating triangle, sawtooth or pulse (with adjustable width) waveforms and can also generate noise with a color control. OSC 2 can be hard-synched to OSC 1.

Linear deep frequency modulation of osc 1 from osc 2. A wide range of new waveforms with a strong formant character is achieved with the new synchable noise, where noise can be synched to OSC 1.

FILTER SECTION

12 dB (2-pole) low pass, 24 dB (4-pole) low pass, band pass or high pass and notch with 12dB low pass. Cut off, resonance, envelope amount, envelope amount controlled by velocity. ADSR envelope. Filter keyboard tracking can be set to full, half or off. Filter distortion.

AMPLIFIER SECTION

ADSR envelope, gain control.

MODULATION SECTION

LFO 1 generating triangle, saw, pulse, LF filtered noise and random staircase routed to OSC1+2, OSC 2, filter, pulse-width and FM amount.

LFO 2 produces a triangle waveform, routed to OSC 1 and 2 or amplifier. It also controls the rate for the arpeggiator. Arpeggiator: Range: 1 - 4 octave. Modes: up, down, up/down, random. Hold function. Echo can be set between 1 to 8 repeats. Modulation envelope (attack, decay) for OSC 2 pitch, FM amount and pulse width.

PERFORMANCE SECTION

Play mode: Poly, legato, mono, unison mono, unison poly. Manual mode. Four program slots for layering possibilities. Portamento/auto portamento.

PERCUSSION KITS

10 "analog" drum kits. Each percussion kit consists of 8 independent sounds, configured in 8 zones across the keyboard.

MEMORY

Programs (single sounds):
297 (3 x 99) user, 693 (7 x 99) factory.
Performances (multi sounds):
100 user, 300 (3 x 100) factory.
Percussion kits (multi zone sounds):
30 (3 x 10) user, 70 (7 x 10) factory.

AUDIO OUT

4 outputs. Each slot has its own output. Modes: stereo, mono and multi-timbral mode. Headphones output. High resolution low noise 24 bit DACs.

MIDI FEATURES

All control knobs and switches for program editing send and receive control change messages. System exclusive bulk dumps. One program or all programs. MIDI clock synchronizing LFO 1 and LFO 2/arpeggiator restart. Triggering of the filter and amplifier envelopes and velocity control from separate programmable MIDI channel and note numbers.

DIMENSIONS

Nord Lead 2X:
865 x 265 x 105 mm (43 x 10.4 x 4.1")
Nord Rack 2X:
440 x 98 x 175 mm (17.3 x 3.9 x 6.9")

WEIGHT

Nord Lead 2X: 5.3 kg (11.7 lbs)
Nord Rack 2X: 3.4 kg (7.5 lbs)

Specifications subject to change without notice.

nord lead[®] 2X
virtual analog

IMPORTANT INFORMATION!



ARE YOU UP TO DATE?

Congratulations to your purchase
of a brand new NORD product!

Before you start playing, make sure to down-
load the latest OS version from our website.

Please do this regularly to get the best
software available for your NORD instrument.

Check out the Support section at
www.nordkeyboards.com

nord[®]

WORLD WIDE NORD DISTRIBUTORS

Visit www.nordkeyboards.com for a detailed world wide distributor list.

HANDMADE IN SWEDEN
BY DEVOTED MUSIC LOVERS
AT CLAVIA DMI AB



nord®

www.nordkeyboards.com